

# Claims

[c1] What is claimed is:

A system of protecting products against counterfeiting compromising the steps:

- a) encoding a sequence by using a computer system;
- b) method to assure that only unique sequences are calculated;
- c) delivering the said sequence with a product;
- d) transmit said sequence to a computer system;
- e) verify said sequence by using a computer system to identify the consistency of said sequence;
- f) verify said sequence with data stored on a said computer system to determine a product as original or as falsification;
- g) report the result of verification.

[c2] A computer system of claim 1 to:

- a) encode sequences and;
- b) decode sequences and;
- c) carry out tests of the consistency of encoded sequences and;
- d) carry out comparison of said sequences with stored data on said computer system and;

- e) store data on said computer system and;
- f) legitimize parties to access the said computer system and;
- g) legitimize parties to process data on the said computer system and;
- h) generate and send messages.

- [c3] A method of claim 1 of calculating the said encoded sequence by utilizing:
- a) a symmetric encryption method or;
  - b) an asymmetric encryption method or;
  - c) by utilizing in addition a hash method to a symmetric encryption method or;
  - d) by utilizing in addition a hash method to an asymmetric encryption method.
- [c4] Method of claim 1 to assure that only unique encoded sequences are calculated.
- [c5] A method to control manufacturer for producing the same number of products as ordered by a customer by using encoded sequences and deliver the same number of encoded sequences to a manufacturer as number of products are ordered by a customer.
- [c6] A method of protecting products against counterfeiting by delivering an encoded sequence with each piece of

product whereby the sequence:

- a) is printed in readable form on the product or;
- b) is engraved in readable form on the product or;
- c) is printed as barcode on the product or;
- d) is printed in readable form at the package of the product or;
- e) is printed in readable form on a label that can be affixed to the product or the package of the product or;
- f) is printed in readable form on a leaflet that is delivered with the product or;
- g) is engraved as barcode on the product or;
- h) is printed as barcode on the package of the product or;
- i) is printed as barcode on a label that can be affixed to the product or the package of the product or;
- j) is printed as barcode on a leaflet, which is delivered with the product or;
- k) Is stored on a magnetic stripe that is delivered with the product or;
- l) is stored on a radio frequency identification (RFID) tag that is delivered with the product or;
- m) is stored on a the read only memory chip (ROM) in addition to the user data or;
- n) is stored on a chip that is built in a product or;
- o) is stored on any kind of digital data media or;
- p) is stored on a compact disc-read (CD) or;

q) is stored on a digital versatile disc (DVD) or;

- [c7] A method of proofing the authenticity of products by verifying the consistency of encoded sequences according claim 3 which are delivered with each piece of product by carrying out:
- a) a symmetric encryption method;
  - b) a symmetric decryption method;
  - c) an asymmetric encryption method;
  - d) an asymmetric decryption method;
  - e) a symmetric encryption method and a hash method;
  - f) a symmetric decryption method and a hash method;
  - g) an asymmetric encryption method and a hash method;
  - h) an asymmetric decryption method and a hash method.
- [c8] A method of determining products as original or as falsification by utilizing comparisons with data stored in files on computer systems according claim 2 when performing a proof of authenticity.
- [c9] A method of determining the current place where a proof of authenticity of a product is carried out by using encoded sequences and computer systems according claim 2 and data stored in log files on computer systems according claim 2.
- [c10] A method of tracing the chain of distribution of products

by using encoded sequences and computer systems according claim 2 and data stored in log files on computer systems according claim 2 when performing proofs of authenticity.